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DESCRIPTORS: *Glass, Structural properties, Analysis,
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DESCRIPTORS: *Azo radicals, *Phenyl radicals,
*Carboxylic acids, Acids, *Polarographic analysis,
Hydrogen ion concentration, Dissociation, Reduction,
Kinetic theory, Electrodes, Surfaces, Wave analysis,
Organic compounds.

The theory of hydrogen ion impoverishment in insuf-
ficiently buffered solution is extended to dissociable
substances and is tested experimentally in the instance
of p-azobenzenemonocarboxylic acid. It is possible to
calculate wave height and curve shape and to state the
(Chemistry--Physical, TT, v. 8, no. 5) (over)

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DESCRIPTORS: *Azo radicals, *Phenyl radicals,
*Acetic acids, *Hydrochloric acid, Acids, *Polaro-
graphic analysis, Hydrogen ion concentration, Elec-
trodes, Surfaces, Dissociation, Wave analysis.

The theory of hydrogen ion impoverishment in the case
of polarography of organic substances in insufficiently
buffered solution is established in greater detail and is
verified by additional experiments. The theory permits
the calculation of multi-wave polarograms that agree
with those found experimentally. It reproduces cor-
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DESCRIPTORS: *Azo radicals, *Phenyl radicals,
*Polarographic analysis, Hydrogen ion concentration,
Electrodes, Surfaces, Glass electrodes, Adsorption,
Reduction, Organic compounds, Isomers, Wave analy-
sis, Mercury electrodes.

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basis of hydrogen ion impoverishment at the electrode sur-
face. Qualitative relationships for shape and height of
waves are derived and are experimentally tested for
the case of azobenzene. (Author)
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(Materials--Paper, TT, v. 5, no. 6)

61-10388

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2. Cellulose--Processing
3. Title: Kraft cooking
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Sci - Medicine, Antibiotics,
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WEu - Switzerland

Military - Quartermaster, clothing, footwear.

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O. Goetze, ~~XXX~~ 20 pp.

GERMAN, per, Tonind Ztg, Vol CXVIII, (1 p),
1895.

SLA 2335

Sci - Minerals/Metals
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Vapor Pressure Measurements of Copper, Gold,
Alumina, Silica, Silicon, and Silicon Carbide.
Their Formation and Decomposition, by O. Ruff,
M. Korschak, 5 pp.

GERMAN, per, Z Elektrochem, Vol XXII, p 515.

SLA 2336.

Sci - Minerals/Metals
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Nitrogen-3-Fluoride, by Otto Ruff, et al., 13 pp.

GERMAN, per, Zeitschrift fuer Anorganische und
Allgemeine Chemie, Vol CLXXII, 1928, pp 417-425.

59-10243
S.L.A. Tr 923/1956

Sci - Chemistry

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Investigation of Boiling Temperatures and Vapor Pressures by Determination of the Rate of Vaporization According to the Spring Scale Method of O. Ruff, by C. Wagner, 36 pp.

GERMAN, per, Z. Phys Chem, Vol CXIII, 1943, pp 85-100.

SLA 57-2274

Jul 58

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On the Formation of Diamonds, by O. Ruff. UNCLASSIFIED

GERMAN, per, Zeitschrift fuer anorganische und allgemeine Chemie, Vol XCIX, No 2, 25 May 1917, pp 73 - 104.

Sci - Chemistry

*Navy Tr 464/NRL 372

Sep 1951 CTS

A-10119

Dec

S.L.A.F.

Ruff, O[tto], Menzel, W., and Neumann, W.
NOF AND NO₂F. [1962] 11p. (fig. omitted) 8 refs.
Order from SLA \$1.60 62-16481

Trans. of Zeitschrift für Anorg [anische] Chem[ie]
(Germany) 1932, v. 208, p. 293[-303].

DESCRIPTORS: *Nitrogen compounds, *Oxyfluorides,
Production, Purification, Chemical properties,
Physical properties, Stereochemistry.

(Chemistry--Inorganic, TT, v. 9, no. 1)

62-16481

I. Ruff, O.
II. Menzel, W.
III. Neumann, W.

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Ruff, O[cto].
COMPOUNDS OF ARSENIC PENTAFLUORIDE AND
ANTIMONY PENTAFLUORIDE WITH NITROSYL
FLUORIDE. [1962] 12p. 6 refs.
Order from SLA \$1.60 62-16482

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1908, v. 58, p. 325-337.

DESCRIPTORS: *Arsenic compounds, *Antimony com-
pounds, *Fluorides, *Nitrogen compounds, Oxyfluor-
ides, Preparation, Chemical properties, Chemical
reactions, Chemical analysis.

(Chemistry--Inorganic, TT, v. 9, no. 1)

62-16482

I. Ruff, O.

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Ruff, Otto and Staub, Lisbeth.
NITROGEN FLUORIDE AND THE CONDITIONS OF
ITS FORMATION. 29 Oct 58, 6p. 8 refs.
Order from SLA SL 10 63-10593

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(Germany) 1931, v. 198, p. 32-38.
Another trans. is available from SLA as #921, 11p.

DESCRIPTORS: *Nitrogen compounds, Fluorides,
Synthesis (Chemistry), Electrolytes, Temperature,
*Ammonium compounds, *Electrolysis, Amines,
Electrochemistry.

In the electrolysis of ammonium fluoride-hydrofluoric
acid mixtures, nitrogen fluorides in various ratios are
formed, conditional above all on the ammonia con-
centration and the temperature of the electrolyte. The
quantity of NF_3 is always the largest; next to it appear
(Chemistry--Physical, TT, v. 10, no. 1) (over)

63-10593

I. Ruff, O.
II. Staub, L.

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Ruff, Otto and Neumann, Franz.
REDUCTION OF INORGANIC HALIDES. II. REDUC-
TION OF TETRACHLORIDE. [1963] 26p.
Order from K-H \$26.00 K-H 5309 J

Trans. of Zeitschrift für Anorganische [und]
Allgemeine Chemie (East Germany) 1923, v. 128,
p. 81-95.

DESCRIPTORS: Inorganic substances, *Halides,
*Chlorides, Reduction (Chemistry).

(Chemistry--Inorganic, TT, v. 10, no. 1)

63-17291

- I. Ruff, O.
- II. K-H-5309-J
- III. Title: Reduction ...
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

63-17291

Office of Technical Services

The Fluorination of Silver and Copper, by
Ottó Ruff, Manfred Giese, 11 pp.

GERMAN, per, Z für Anorganische und Allgemeine
Chemie, Vol CCXIX, 1934, pp 143-148.

AEC-tr-5294

Sci - chem

Jan 63

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The Fluorides of Group VIII of the Periodic Table,
by Otto Ruff, Ernst Ascher.

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GERMAN, per, Zeitschrift fur Anorganische Chemie,
Vol CLXXXII, 1929.

ABC Tr 77

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CTS Oct 1949 (1/49)

Scientific - Man/Metals

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S.L. A. T. 775/56

Fluorine and Ammonia, by Otto Ruff, Ernst Hanks,
4 pp.

GERMAN, per, Z Anorg U Allgem Chemie, Vol CXCVII,
1931, pp 395-398.

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S.L.A. Tr 919/1956*

Sci - Chemistry

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Ruff, Otto] and Stauber, Kurt].
NITROSYL FLUORIDE. [1962] 11p. (figs. omitted)
14 refs.
Order from SLA \$1.60 62-16483

Trans. of Zeitschrift für Anorganische Chemie
(Germany) 1905, v. 47, p. 190-202.

DESCRIPTORS: *Nitrogen compounds, *Oxyfluorides,
Physical properties, Chemical properties.

(Chemistry--Inorganic, TT, v. 9, no. 2)

62-16483

I. Ruff, O.
II. Stauber, K.

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63-14304

Ruff, Otto and Brinzingler, Herbert.
REDUCTION OF THORIUM, ZIRCONIUM, AND
TITANIUM DIOXIDES. [1963] 12p. (fig. omitted)
56 refs.

Order from SLA \$1. 60

63-14304

Trans. of Z[eitschrift für] Anorg[anische] u[nd]
Allg[emeine] Chem[ie] (Germany) 1923, v. 129,
p. 267-275.

DESCRIPTORS: *Thorium compounds, *Zirconium
compounds, *Titanium compounds, *Dioxides,
*Reduction (Chemistry), *Chlorides, Sodium, Calcium,
Alcohols.

I. Ruff, O.
II. Brinzingler, H.

63-14304

(Chemistry--Inorganic, TT, v. 10, no. 4)

Office of Technical Services

Ruff, Otto and Thomas, Fritz.
BEHAVIOR OF NIOBIUM-- AND TANTALUM--5--
OXIDES IN THE PRESENCE OF CARBON TETRA-
CHLORIDE AND A METHOD FOR THE ANALYTIC
DETERMINATION OF NIOBIUM AND TANTALUM,
[1963] 15p. 10 refs.
Order from SLA \$1.60

63-14131

Trans. of Zeitschrift für Anorganische und
Allgemeine Chemie (Germany) 1926, v. 156,
p. 213-225.

DESCRIPTORS: *Niobium compounds, *Tantalum
compounds, *Oxides, *Carbon tetrachloride,
Chemical analysis, Determination, Chlorides,
Purification, Quantitative analysis, Reduction
(Chemistry).

(Chemistry--Analytical, TT, v. 10, no. 4)

63-14131

I. Ruff, O.
II. Thomas, F.

Office of Technical Services

Ruff, Otto and Wallstein, Richard
REDUCTION OF INORGANIC HALIDES. PT. 3. THE
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[17p] 6 refs.
Order from SLA \$1.60

TT-60-16766

Trans. of Zeitschrift für Anorg[anische und]
Allge[meine] Chem[ie] (Germany) 1923, v. 128 (no. 1)
p. 96-116.

(Chemistry--Inorganic, TT, v. 12, no. 7)

TT-60-16766

I. Ruff, O.
II. Wallstein, R.
III. Title: Reduction ...